

ABSTRACT

Providing a virtual device container to  
virtually extend the functionality of a network  
device on a network for supporting a plurality of  
functional application modules residing in a server  
on the network, including receiving a function  
request sent from one of the functional application  
modules, the function request corresponding to the  
network device, and selecting one of a plurality of  
functional component modules in response to the  
function request, each of the functional component  
modules corresponding to a respective one of the  
functional application modules, the selected  
functional component module corresponding to the  
functional application module which sent the  
function request. The virtual device container also  
includes executing the selected functional component  
module according to the function request, wherein  
each functional component module communicates with  
the corresponding functional application module  
through a first interface and communicates with the  
network device through a second interface.